



AVOX Systems

Formerly Scott Aviation, Inc.

SERVICE INFORMATION LETTER

AVOX Systems Inc.

225 Erie Street • Lancaster, NY 14086-9502 • USA

Tel: 716-683-5100 • Fax: 716-681-1089 • Web Site: www.avoxsys.com

OXYGEN - ATA CHAPTER 35

VENDOR CODE: 53655

P/N 28000 SERIES – DILUTER DEMAND REGULATOR ASSEMBLY

AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

- OVERHAUL PERIOD,
- MINIMUM NECESSARY PARTS TO REPLACE,
- KITS OF MINIMUM NECESSARY PARTS TO REPLACE, AND
- NECESSARY FUNCTIONAL TESTS AFTER AN OVERHAUL

1. BACKGROUND

This SIL recommends the overhaul period for the 28000 Series Diluter Demand Regulator Assembly. This SIL identifies the minimum parts to replace during an overhaul. This SIL includes facts about kits that contain all of the minimum necessary parts to be replaced in an overhaul. This SIL gives information about functional testing required after an overhaul. This SIL does not change any procedures in the Overhaul Manual except as noted.

You are given authority to make copies of this SIL and give them to other persons. If you make a copy of this SIL, you must make a copy of all of the SIL.

2. EFFECTIVITY

A. Aircraft

Any aircraft that uses the AVOX 28000 Series Diluter Demand Regulator Assembly.

B. Diluter Demand Regulator Assembly.

Any AVOX 28000 Series Diluter Demand Regulator Assembly listed in Table 1.

C. Regulators

(1) Regulator part numbers that are affected by this SIL are listed in Table 1.

TABLE 1
AFFECTED REGULATOR PART NUMBERS

28000-01	28000-03	28000-05	28000-07
28000-09	28000-15	28000-17	



2. EFFECTIVITY (CONTINUED)

D. Overhaul Manual

AVOX Overhaul Manual 35-11-24 (current revision 4 dated October 10, 1997) is necessary to do an overhaul. After the Overhaul Manual is revised to incorporate this SIL, this SIL will not be applicable to the Overhaul Manual. See Section 6 of this SIL on how to contact AVOX Systems for revision status of technical publications.

3. AVOX SYSTEMS RECOMMENDS FOR AN OVERHAUL:

A. Overhaul Period

Do an overhaul every five years for the 28000 Series Diluter Demand Regulator Assembly or more frequently.

B. Minimum Necessary Parts to Replace for an Overhaul

Overhaul Kit P/N 28013-01 contains the minimum necessary parts to replace for an overhaul of the 28000 Series Diluter Demand Regulator Assembly. You must replace other parts if they are defective.

C. Functional Tests that are Necessary After an Overhaul

You must do all the functional tests in the Overhaul Manual after you do an overhaul on the 28000 Series Diluter Demand Regulator Assembly. You must follow all applicable procedures in the Overhaul Manual when you do an overhaul. This SIL does not change the test procedures in the Overhaul Manual.

4. ACCOMPLISHMENT INSTRUCTIONS

An overhaul must be done by personnel knowledgeable in the repair of high-pressure aviation oxygen equipment. An overhaul must be done in a facility that is approved for the repair of high-pressure aviation oxygen equipment. Contact AVOX Systems for locations of repair facilities authorized to repair AVOX oxygen equipment. See Section 6 of this SIL for contact instructions.

You must use all the necessary special tools and test equipment recommended in the Overhaul Manual. Equivalent special tools and test equipment may be substituted. All tools and test equipment used to repair high-pressure aviation oxygen equipment must be calibrated. You must do the calibrations how and when your applicable national standards organization recommends. You must use tools that are clean for oxygen use.

A. Use the Overhaul Manual and this SIL to do an overhaul of the Diluter Demand Regulator Assembly.

B. Write in your aircraft logs that an overhaul was done on the Diluter Demand Regulator Assembly.

5. DISASSEMBLY

Refer to IPL Figure 1 for item numbers in parentheses

NOTE: If removed during disassembly, discard and replace the following parts: Gasket (122), Preformed Packing (140), Preformed Packing (152A), Valve Assembly (121), Gasket (107), Gasket (104), Diaphragm (136), Valve Assembly (154), Preformed Packing (153), Preformed Packing (137), Preformed Packing (92), Preformed Packing (132), Preformed Packing (69), Gasket (71), Gasket (134), Preformed Packing (170).



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TABLE 2
PARTS CONTAINED IN OVERHAUL KIT P/N 28013-01
FOR THE 28000 SERIES DILUTER DEMAND REGULATOR ASSEMBLY
(Refer to Notes 1 and 2)

KIT ITEM NUMBER	PART NUMBER	NOMENCLATURE	QUANTITY PER KIT
1	13362-00	GASKET	1
2	55556-00	PACKING, PREFORMED	1
3	MS9068-013	PACKING, PREFORMED	1
4	10394-00	VALVE ASSEMBLY	1
5	10418-02	GASKET	1
6	10418-03	GASKET	1
7	10497-00	DIAPHRAGM	1
8	24847-00	VALVE ASSEMBLY	1
9	18004-00	PACKING, PREFORMED	1
10	18024-00	PACKING, PREFORMED	1
11	18025-00	PACKING, PREFORMED	1
12	18026-00	PACKING, PREFORMED	1
13	18027-00	PACKING, PREFORMED	1
14	23395-01	GASKET	1
15	13525-00	GASKET	1
16	18057-00	PACKING, PREFORMED (See Note 2)	1

Note 1: The overhaul kit contains the minimum necessary parts to replace in an overhaul of one 28000 Series Diluter Demand Regulator Assembly. See Section 6 of this SIL for instructions to buy an overhaul kit.

Note 2: Preformed Packing P/N 18057-00 is equivalent to Preformed Packing P/N MS9068-028 and P/N 38439-01.



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6. TO CONTACT AVOX SYSTEMS:

- A. To get an overhaul of a 28000 Series Diluter Demand Regulator Assembly or to have it repaired, contact any AVOX Authorized Repair and Overhaul Facility. Refer to the AVOX web site (www.avoxsys.com) for a list of authorized facilities.
- B. To buy kits or parts, contact any AVOX Authorized Distributor. Refer to the AVOX web site (www.avoxsys.com) for a list of distributors.
- C. To get technical aid, contact the AVOX Technical Support Department.
 - Telephone: 1-716-683-5100
 - Fax: 1-716-681-1089
 - E-Mail: sa-customerservice@avox.zodiac.com
- D. To get a copy of the Overhaul Manual or the revision status of a publication, contact the AVOX Technical Publications Department. Give the aircraft model when you send an order for an Overhaul Manual copy.
 - Telephone: 1-716-683-5100
 - Fax: 1-716-681-1089
 - E-Mail: techpubs@avox.zodiac.com
 - Publications Index: log onto www.avoxsys.com; click on Aviation/Government Products, click on Aviation Product Information, click on Technical Product Information

Note: The steps to get the Publications Index from the AVOX Systems web site can and will change in the future because of changes to the web site.

New Contact Information (after September 1 , 2004):

AVOX Systems Inc. (Formerly Scott Aviation, Inc.)

New Technical Support e-mail: avoxcs@avox.zodiac.com

New Technical Publications e-mail: avoxtechpub@avox.zodiac.com

New website address: www.avoxsys.com